

ABSTRACT OF THE DISCLOSURE

A combiner for use with a powered device having high power needs, the combiner comprising: a first power input adapted to receive a first power signal over a first set of wire pairs utilized to carry communication data; a 5 second power input adapted to receive a second power signal over a second set of wire pairs, wherein the first power signal is combined with the second power signal to produce a combined high power signal; and a control circuit operable to sense the combined high power signal and to supply the combined high power signal to a powered device in response to the sensed 10 combined high power signal. Also disclosed is a local area network adapted to supply power to powered devices over a plurality of paths utilizing the combiner, the local area network thus supplying high power to a powered device.